

IN THE CLAIMS:

1. (Currently Amended) A micorarray substrate comprising a patterned photoresist film having one or more spot regions therein, the photoresist film being detachable from the substrate, wherein the spot regions are defined by the patterned photoresist film.

2. (Currently Amended) The microarray substrate of claim 1, wherein compounds having functional groups capable of covalently binding to probes are attached to the substrate in the spot regions.

3. (Currently Amended) The microarray substrate of claim 2, wherein probes are covalently bound to the compounds having functional groups, and wherein the probes are proteins, nucleotides, or polysaccharides.

4. (Original) The microarray substrate of claim 2, wherein the compounds having the functional groups are silane compounds with aldehyde, epoxy, or amine end groups.

5. (Previously Presented) A microarray comprising probes immobilized in spot regions of a microarray substrate, the microarray substrate including a detachable patterned photoresist film on which the spot regions are formed.

6. (Currently Amended) A method of detecting a target material, comprising:

(a) preparing a substrate having a patterned photoresist film, the patterned photoresist film being detachable from the substrate and having one or more spot regions therein, wherein the spot regions are defined by the patterned photoresist film;

(b) immobilizing probes in the spot regions to prepare a microarray;

(c) contacting the probes and a sample containing the target material to react the probes and the target material;

(d) detaching the photoresist film from the microarray to remove the target material nonspecifically bound to the photoresist film; and

(e) detecting the reaction between the target material and the probes.

7. (Original) The method of claim 6, wherein the probes are proteins, nucleotides, or polysaccharides.

8. (Currently Amended) The microarray of claim 5, wherein the probes are covalently bound ~~covalently bind~~ to functional groups of compounds previously attached to the spot regions.

9. (Currently Amended) The microarray of claim 8, wherein the probes comprises proteins, nucleotides, or polysaccharides.

10. (Currently Amended) The microarray of claim 8, wherein the compounds comprises silane compounds with aldehyde, epoxy, or amine end groups.

11. (New) The method of claim 6, wherein detaching comprises delaminating.